PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: Kenneth D. James et al.

Confirmation No.: 9468

Application No.: 10/723,933 Filed: November 26, 2003

NATRIURETIC COMPOUNDS, CONJUGATES, AND USES THEREOF For:

June 17, 2004

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97(b)

Sir:

Attached is a list of documents on Form PTO-1449, together with a copy of any listed foreign patent document and/or non-patent literature. A copy of any listed U.S. patent and/or U.S. patent application publication is not provided herewith in accordance with the waiver by the U.S. Patent and Trademark Office of requirements under 37 C.F.R. § 1.98(a)(2)(i) for all U.S. national patent applications filed after June 30, 2003 and for all international applications that have entered the national stage under 35 USC § 371 after June 30, 2003. It is requested that these documents be considered by the Examiner and officially made of record in accordance with the provisions of 37 C.F.R. § 1.56 and Section 609 of the MPEP.

No fee is believed due. However, the Commissioner is hereby authorized to charge any deficiency or credit any overpayment to Deposit Account No. 50-0220.

Respectfully submitted

Shawna Cannon Lemon Registration No. 53,888

Myers Bigel Sibley & Sajovec, P.A.

P. O. Box 37428

Raleigh, North Carolina 27627 Telephone: (919) 854-1400 Facsimile: (919) 854-1401

Customer No. 20792

CERTIFICATE OF MAILING UNDER 37 CFR § 1.10

"Express Mail" mailing label number EV 381445270 US

Date of Deposit: June 17, 2004

I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to Mail Stop Amendment, Commissioner of Patents, P.O. Box 1450, Afexandria, VA 22313-1450.

Susan E. Freedman

Date of Signature: June 17, 2004

FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office

LIST OF DOCUMENTS CITED BY APPLICANT

(Use several sheets if necessary)

Attorney Docket Number	r
9233-108	

Serial No. 10/723,933

Applicants:

James et al.

Filing Date November 26, 2003 Group

U. S. PATENT DOCUMENTS

			U. S. PA	ATE	NT DOCUMENTS			
Examiner Initial		Document Number	Date		Name	Class	Subclass	Filing Date if Appropriate
	Al.	4,569,794	02/11/86	Sm	ith et al.			
	A2.	4,904,763	02/27/90	Ma	itsuo et al.			
	A3.	5,702,910	12/30/97	Nu	mata et al.			
	A4.	5,827,674	10/27/98	Nu	mata et al.			
	A5.	5,859,203	01/12/99	Nu	mata et al.			
	A6.	5,948,761	09/07/99	Se	ilhamer et al.			
	A7.	6,037,143	03/14/00	W	agner et al.			
	A8.	2002/0025559	02/28/02	Ts	uji et al.			
	A9.	2002/0086843	07/04/02	Su	doh et al.			
	A10.	2003/0022235	01/30/03	Da	ahlen et al.			
	A11.	2003/0055461	03/20/03	Gi	irouard et al.			
	A12.	2003/0069186	04/10/03	В	urnett, JR. et al.			
	A13.	2003/0087808	05/08/03	So	oltero et al.			
	A14	. 2003/0109430	06/12/03	Se	eilhamer et al.			
	A15	. 2004/0002458	01/01/04	Se	eilhamer et al.			
	A16	. 2004/0005669	01/08/04	St	tahl et al.			
			FOREIG	N P	ATENT DOCUMENTS		,	
		Document Number	Date	2	Country	Class	Subclass	Translation Yes No
	A17	. WO89/12069 A1	12/14/8	39	PCT	C07K	13/00	Yes
	A18	3. 0 542 255 A1	05/19/9	 93	EP	C12P	21/08	Yes

-		Document Number	Date	Country	Class	Subclass	Translation Yes No
	A17.	WO89/12069 A1	12/14/89	PCT	C07K	13/00	Yes
	A18.	0 542 255 A1	05/19/93	EP	C12P	21/08	Yes
	A19.		04/06/94	EP	C12N	5/12	Yes
	A20.	0 542 255 B1	02/17/99	EP	C12P	21/08	Yes
	A21.	WO 99/07735 A2	02/18/99	PCT	C07K	14/00	Yes
	A22.		03/16/00	PCT	E04B	1/68	Yes

EXAMINER *EXAMINER

FORM PTO-14	merce APPLICANT	Attorney Docket Number 9233-108			Serial No. 10/723,933			
TPE SCION	everal sheets if necessa		Applicants:					
N 1 7 2004 H	17 2004 H					Filing Date November 26, 2003		
MADEMARI	A23.	1 030 177 A1	08/23/00	EP		G01N	33/48	Yes
	A24.	WO 00/71576 A2	11/30/00	PCT		A61K	48/00	Yes
	A25.	WO 00/71576 A3	11/30/00	PCT ·		A61K	48/00	Yes
		0 528 686 B1	11/05/03	EP		C12N	15/62	Yes
	7120.							
		OTHER DOCUME	NTS (Includ	ing Author,	Title, Date, P	ertinent Pag	ges, Etc.)	
	A27.	Beltowski, J., "N-ter	minal atrial r	natriuretic p	eptides", Post	epy Hig Me	d Dosw, 54(6):895-914 (2000)
	A28. Brookes, L. "REDHOT: Rapid Emergency Department Heart Failure Outpatient Trial" Presented at the 7 th Annual Scientific Meeting of the Heart Failure Society of America; Las Vegas, NV (September 2003)							rial" Presented at gas, NV
	A29.	Carvajal et al. "Natriuretic Peptide-Induced Relaxation of Myometrium from the Pregnant Guinea Is Not Mediated By Guanylate Cyclase Activation" <i>The Journal of Pharmacology and Experiment Therapeutics</i> 297(1): 181-188 (2001)						
	A30.	Cormole et al. "Natriuretic Pentides Increase a K+ Conductance in Rat Mesangial Cells" Pflugers						
	A31.	Chatterjee, K. "Primary Diastolic Heart Failure" Am J Geriatr Cadrdiol 11(3): 178-189 (2002)						
	A32. Chen et al. "Maximizing the Natriuretic Peptide System in Experimental Heart Failure" Circulation 999-1003 (2001)							
	A33.	Characted "Subsystemeous Administration of Brain Natriuretic Peptide in Experimental Heart Failure"						
	A34. Fukuzawa et al. "B-type Natriuretic Peptide Isolated from Frog Cardiac Ventricles" Biochem Biophys. Res Commun 222(2): 323-329 (May 1996) Abstract							s" Biochem Biophys
	A35. Gäken et al. "Fusagene Vectors: A Novel Strategy for the Expression of Multiple Genes from a Sing Cistron" Gene Therapy 7: 1979-1985 (2000)							Genes from a Single
	A36.	Garlichs et al. "Prir	ning of Super ces 65 (10): 1	roxide Anio 027-33 (19	n in Polymor 99)			oy Brain Natriuretic
	A37.	Gattis, W.A. "Meto	prolol CR/X	L in the Tre	eatment of Ch			rmacotherapy 21 (5):
	A38	Usibel A "Purification of a Protein Tagged with (His)s at its N-Terminus, C-Terminus, and Both N-						
	A39	Lt						
	A40	Kambayashi et al. "Biological Characterization of Human Brain Natriuretic Peptide (BNP) and Rat BNP: Species-Specific Actions of BNP" Biochemical and Biophysical Research Communications						
	173(2): 599-605 (1990) A41. Koller et al. "Molecular Biology of the Natriuretic Peptides and Their Receptors" Circulation 86 (4) 1081-1088 (October 1992)							' Circulation 86 (4)
	A42. Krum et al. "Diagnostic and therapeutic potential of the endothelin system in patients with chronic heart failure" Heart Fail Rev 6(4): 341-52 (December 2001)							

FORM PTO-14		S. Department of Commerce nd Trademark Office	Attorney Docket Number 9233-108	Serial No. 10/723,933			
	F DOCU	MENTS CITED BY APPLICANT					
PESCION	(Use s	everal sheets if necessary)					
N 1 7 2004 9			Applicants: James et al.				
PADEMARK			Filing Date Grou November 26, 2003				
1 HALLE	A43.	Lindsay et al. "Acetoacetylation of Insulin" B	Piochem. J. 115: 587-595 (1969)				
	A44.	Lindsay et al. "The Acetylation of Insulin" Bi					
	A45.	Natriuretic Peptide, in Experimental Severe (37(4):1089 (2001)	ynthetic Vasoactive and Natriuretic Peptide, Dendroaspis Congestive Heart Failure" <i>HypertensionAbstracts</i>				
	A46.	Luchner et al. "Differential Atrial and Ventric Heart Failure" Am J Physiol 274(Heart Circ.	Physiol. 43): H1684-1689 (1998)				
	A47.	Magga et al., "B-type natriuretic peptide: a malterations in cardiac gene expression", Ann I	Med. 30 (1):39-45 (1998)				
	A48.	Institute of Biochemistry, Middlesex Hospital	on and Activity of Partially Arylated Insulin" Courtauld al Medical School, London 53: 37-40 (1953)				
	A49.	Peptides and Related Analogs" Biochemistry					
	A50.	Porcine Cardiac Atrium" <i>Biochemical and B</i> (1988)	n of a High Molecular Weight Brain Natriuretic Peptide in Biophysical Research Communications 157(1): 402-409				
	A51.	Am Heart J. 134(3):442-9 (1997)	etic peptides as markers for left ventricular dysfunction",				
	A52.	Hypertension" Circulation 102(8): 865-870	ptide as a Prognostic Indicator in Patients with Primary (August 2000) Abstract				
	A53.	and Brain Natriuretic Peptide in Healthy Me	s Exercise on Plasma Levels of Atrial Natriuretic Peptide en" <i>Am Heart J</i> 141(5):751-758 (May 2001) Abstract				
	A54.	Oliver et al. "Natriuretic Peptide Receptor 1 Dependent Manner" <i>Proc. Natl. Acad. Sci. U</i>					
	A55.	Pemberton et al. "Amino-Terminal proBNP Response to Cardiac Overload" Am. J. Phys.	in Ovine Plasma: Evidence for Enhance iol. 275(Heart Circ. Physiol. 44): H120	d Secretion in 0-1208 (1998)			
	A56.	Potter et al. "Identification and Characteriza" Natriuretic Peptide Receptor" <i>The Journal of</i> 1998)	tion of the Major Phosphorylation Sites of Biological Chemistry 273 (25): 15533	of the B-type -15539 (June			
	A57.	Heart Failure" CHF 8(2):80-85 (2002)	tegies to Overcome Resistance in Patients with Congestive				
	A58.	Pharmacology 47:172-180 (1995)	Three Species of Natriuretic Peptide Receptor-A" Molecular				
	A59.	Schulz et al, "Radioimmunoassay for N-term J Clin Lab Invest 61(1): 33-42 (February 20	minal probrain natriuretic peptide in human plasma" Scand 001)				
	A60.	Seymour et al. "Potentiation of Natriuretic Pharmacol Physiol 22(1) 63-69 (January 19	Peptides by Neutral Endopeptidase Inhibitors" Clin Exp				
A61. Sudoh et al. "Cloning and Sequence Analysis of cDNA Encoding a Precursor for Human Brain Natriuretic Peptide" Biochemical and Biophysical Research Communications 159(3): 1427-14 (March 31, 1989)							
A62. Suga et al. "Receptor Selectivity of Natriuretic Peptide Family, Atrial Natriuretic Peptide, Brain Natriuretic Peptide, and C-Type Natriuretic Peptide" <i>Endocrinology</i> 130(1): 229-239 (1992)							

	FORM PTO-1449 Pate	U.S. Department of Commerce ent and Trademark Office	Attorney Docket Number 9233-108	Serial No. 10/723,933				
	(be S	OCUMENTS CITED BY APPLICANT						
	IN 17 2004 SA (C	Jse several sheets if necessary)	Applicants: James et al.					
N.	* MADEMARY		Filing Date November 26, 2003	Group				
		A63. Takeda et al "Brain Natriuretic Peptide in Hypertension" Hypertens Res 18(4): 259-266 (December 1995) Abstract						
	А	Takei et al. "A New Natriuretic Peptide Is FEBS Lett 414(2): 377-380 (September 19	Takei et al. "A New Natriuretic Peptide Isolated from Cardiac Atria of Trout, Oncorhynchus Mykiss" FEBS Lett 414(2): 377-380 (September 1997) Abstract					
	A	Comp Riochem Physiol B. Biochem Mol B	Takei, Y. "Does the Natriuretic Peptide System Exist Throughout the Animal and Plant Kingdom?" Comp Biochem Physiol B. Biochem Mol Biol 129(2-3): 559-573 (June 2001) Abstract					
	A	Uusimaa et al. "Plasma Vasoactive Peptides After Acute Myocardial Infarction in Relation to Left Ventricular Dysfunction" Int J Cardiol 69(1): 5-14 (April 1999) Abstract						
	A	Woods et al. "Atrial, B-type, and C-type Natriuretic Peptides Cause Mesenteric Vasoconstriction in Conscious Dogs" Am. J. Physiol. 276(Regulatory Integrative Comp. Physiol. 45): R1443-R1453 (1999)						
	A	Very protect of El "Effect of Endogenous Natriuretic Pentide System on Ventricular and Coronary						
	1 unction in 1 uning 1.200.2 1							